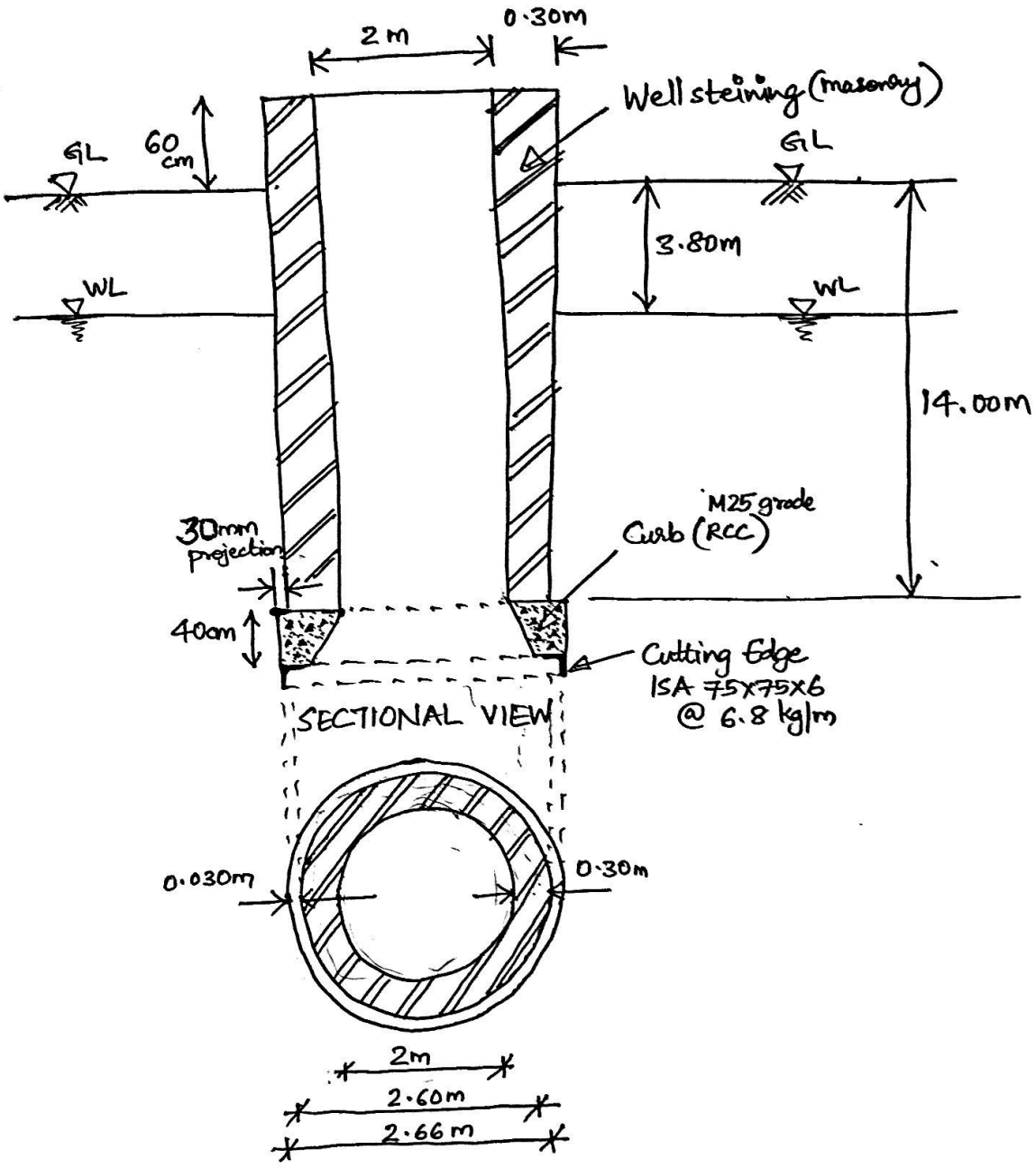
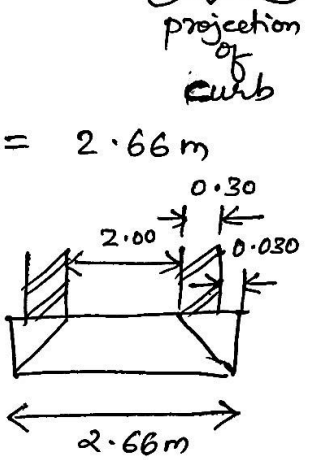
Masonry Well

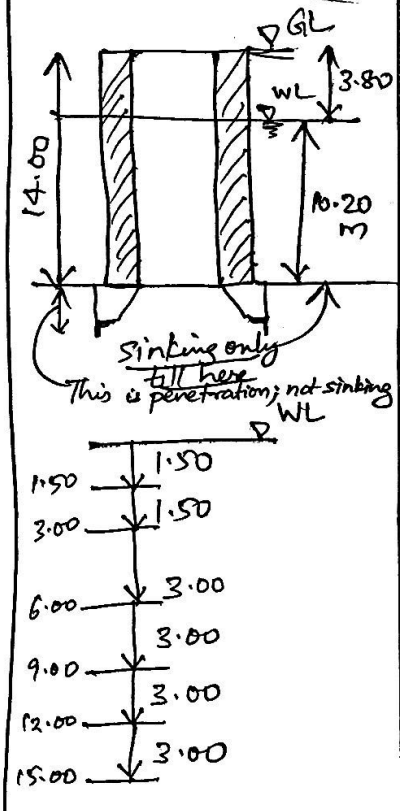
1. open well excavation upto ground water level
   — for every 1.50m excavation of earth in m^3.
2. excavation below ground water
   — in running metres (m) of depth.

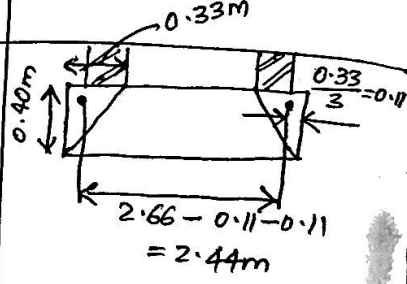
Question

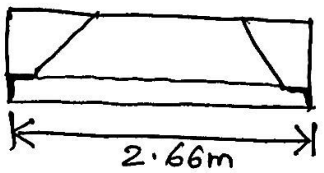
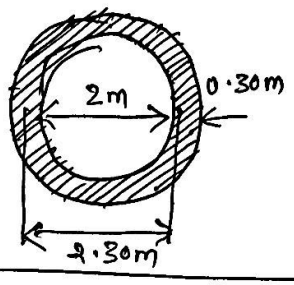


No.	Item of Work	No.	L (m)	B (m)	H (m)	Quantity	Remarks.
1.	Earthwork in excavation upto groundwater level						Dia = 2.00 + 0.30 + 0.30 + (0.030×2) projection of curb = 2.66 m
	(i) From GL to 1.50m depth	1	$\frac{\pi}{4}(2.66)^2$		1.50	8.34 m^3	
	(ii) From 1.50m to 3.00m depth	1	$\frac{\pi}{4}(2.66)^2$		1.50	8.34 m^3	
	(iii) From 3.00 to 3.80m depth	1	$\frac{\pi}{4}(2.66^2)$		0.80	4.45 m^3	
2.	Sinking of well below groundwater level						
	(i) From WL to 1.50m below	1			1.50	1.50 m	
	(ii) From 1.50m to 3.00m below	1			1.50	1.50 m	
	(iii) From 3.00m to 6.00m below	1			3.00	3.00 m	
	(iv) From 6.00m to 9.00m below	1			3.00	3.00 m	
	(v) From 9.00m to 10.20m below	1			1.20	1.20 m	
3.	RCC of grade M25 in curb of well. (Assume the shape of well curb as triangular approximately)	1	½ × 0.40	0.33	π(2.44)	0.506 m^3	







No.	Item of work	No.	L (m)	B (m)	H (m)	Quantity	
4.	Steel work in cutting edge ISA 75×75×6 @ 6.80 kg/m	1	π(2.66)	6.80		56.83 kg	
5.	Brickwork in cement mortar 1:6 in well-steining	1	π(2.30)	0.30	14.60	31.65 m^3	
6.	Pointing on brickwork with cement mortar 1:3						
	(i) Inside of well	1	π(2.00)		14.60	91.74 m^2	
	(ii) Outside of well parapet	1	π(2.60)		0.60	4.90 m^2	
	(iii) Top surface of parapet	1	π(2.30)		0.30	2.17 m^2	
						98.81 m^2	